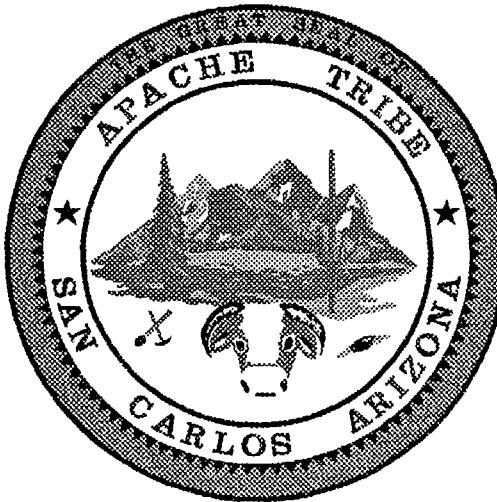


Chapter

**10**

## **PLANS AND STAGING PROGRAM**



Chapter

# 10

## PLANS & STAGING PROGRAM

*for the Airport Master Plan  
and Environmental Assessment for the  
San Carlos Apache Airport*

### 10.0 GENERAL

In Chapters V and VI, "Facility Requirements" and "Development Alternatives" an evaluation was made of future options for airside and landside development. This effort resulted in the selection of an alternative for future airport improvements at the San Carlos Apache Airport. The purpose of this Chapter is to describe the Airport Layout Plan Drawing Set that depicts the development selected by the Sponsor to be accomplished at the existing site.

The set of plans, referred to as the Airport Layout Plan, has been prepared to graphically depict the recommendations for airfield layout, disposition of obstructions, and future use of land in the vicinity of the airport. The Airport Layout Plan drawing set consists of the following drawings:

- Cover Sheet
- Airport Layout Plan Drawing
- Building Area Plan Drawing
- Airport Airspace Drawing
- Inner Portion of the Approach Surface Drawing
- Land Use Drawing
- Exhibit "A" Property Map
- Aerial Photograph

### 10.1 DESIGN STANDARDS

The San Carlos Apache Airport has been identified as a general aviation type facility that will be designed to accommodate the aircraft in Airport Reference Code C-II which weigh less than 60,000 pounds dual wheel gear (DWG). Runway 9/27 will be designated as C-II runway which is planned for use by aircraft with wingspans of less

---

than 79 feet and approach speeds of less than 141 knots, although larger aircraft may use the airport if within their performance characteristics. Advisory Circulars published by the FAA have been used to provide general guidance in the overall planning effort. These guidelines are designed to provide flexibility in application to ensure the safe, economic, and efficient use of the airport.

In order to meet the design standards for a C-II runway, the major projects required at the San Carlos Apache Airport include relocating the runway by 100 feet to the south and relocating the existing drainage wash channel further to the south. These items, along with expansion of the aircraft parking apron and T-hangar development, are depicted in the Airport Layout Plan Drawing Set.

## **10.2 AIRPORT LAYOUT PLAN DRAWING**

The Airport Layout Plan (ALP) drawing graphically presents the existing and future airport layout and depicts the recommended improvements which will enable the airport to meet forecasted aviation demand. Detailed airport and runway data are provided on the ALP to facilitate the interpretation of the master plan recommendations.

The Airport Layout Plan shows a number of airport improvements associated with both the airfield and the landside area. The improvements for the landside area are illustrated in more detail and at a larger scale on the Building Area Plan drawing and are discussed later in this Chapter.

## **10.3 BUILDING AREA PLAN**

The Building Area Plan represents a refinement of the selected development configuration and provides a plan for construction of facilities to meet forecasted aviation demand. The condition and location of the existing building area will allow expansion for future airport operations. Included in the building area plan are the recommended locations for apron expansion and T-hangar development. The recommended building area development plan will accommodate future needs without disrupting current airport operations.

## **10.4 AIRPORT AIRSPACE DRAWING**

The airport airspace drawing depicts a plan view of the airport FAR Part 77 surfaces and profiles of the Part 77 approach surfaces for the ultimate runway condition. The existing approaches to Runways 9 and 27 are visual with slopes of 20 to 1 for a distance of 5,000 feet. The planned approaches to Runways 9 and 27 are nonprecision instrument approaches utilizing the Global Positioning System (GPS) with slopes of 34 to 1 for a distance of 10,000 feet. The plans and profiles facilitate identification of obstructions, roadways, and buildings that lie within the confines of the Part 77 Airspace and the approach surfaces of each runway.

---

## **10.5 INNER PORTION OF THE APPROACH SURFACES DRAWING**

This drawing provides a larger scale plan and profile of the inner portion of the approach surfaces, extending to where the approach slope reaches 100 feet in height, and the Runway Protection Zones for each existing and planned runway end. The plan depicts the physical features in the vicinity of each runway end, including topographic changes, roadways, and trees. The dimensions and slopes of approach surfaces are functions of the runway service category and the approach classification.

## **10.6 LAND USE PLAN**

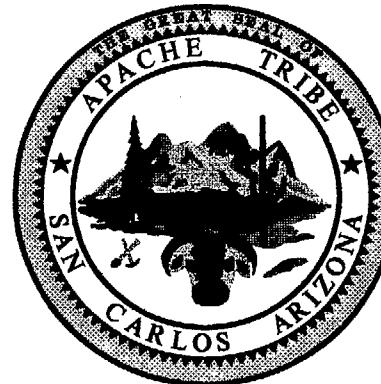
The Land Use Plan depicts the zoning regions within the airport vicinity and those land uses authorized by the San Carlos Apache Tribe. The Tribe, in coordination with the FAA, state, and local governments, should strive to coincide zoning regions with the compatible land uses outlined in Federal Aviation Regulation 150/5020-1, "Noise Control and Compatibility Planning for Airports".

## **10.7 EXHIBIT "A" PROPERTY MAP**

The Exhibit "A" Property Map identifies the ownership or interests in each property tract located within the airport boundaries and those required for future aeronautical uses or development. When possible, the airport should pursue ownership of all properties within the airport boundaries, safety areas, and protection zones.

# SAN CARLOS APACHE AIRPORT AIRPORT LAYOUT PLANS GLOBE, ARIZONA

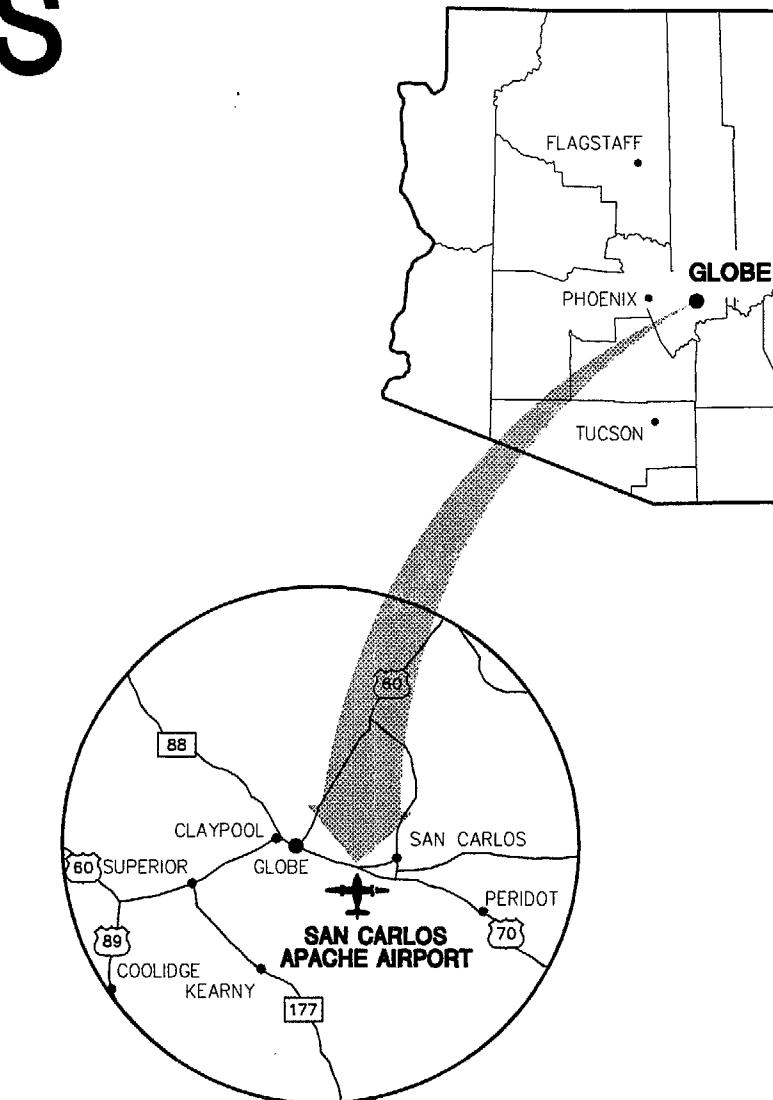
ARMSTRONG PROJECT NO. 965484



AIRPORT SPONSOR  
**SAN CARLOS APACHE TRIBE**

## INDEX

DESCRIPTION	SHEET
COVER SHEET	1
AIRPORT LAYOUT PLAN	2
PART "77" AIRSPACE	3
EXISTING RUNWAY 9/27 INNER APPROACH PLAN & PROFILE	4
ULTIMATE RUNWAY 9 INNER APPROACH PLAN & PROFILE	5
ULTIMATE RUNWAY 27 INNER APPROACH PLAN & PROFILE	6
TERMINAL AREA PLAN	7
ON-AIRPORT LAND USE	8
OFF-AIRPORT LAND USE	9
EXHIBIT "A"	10
AERIAL PHOTOGRAPH	11

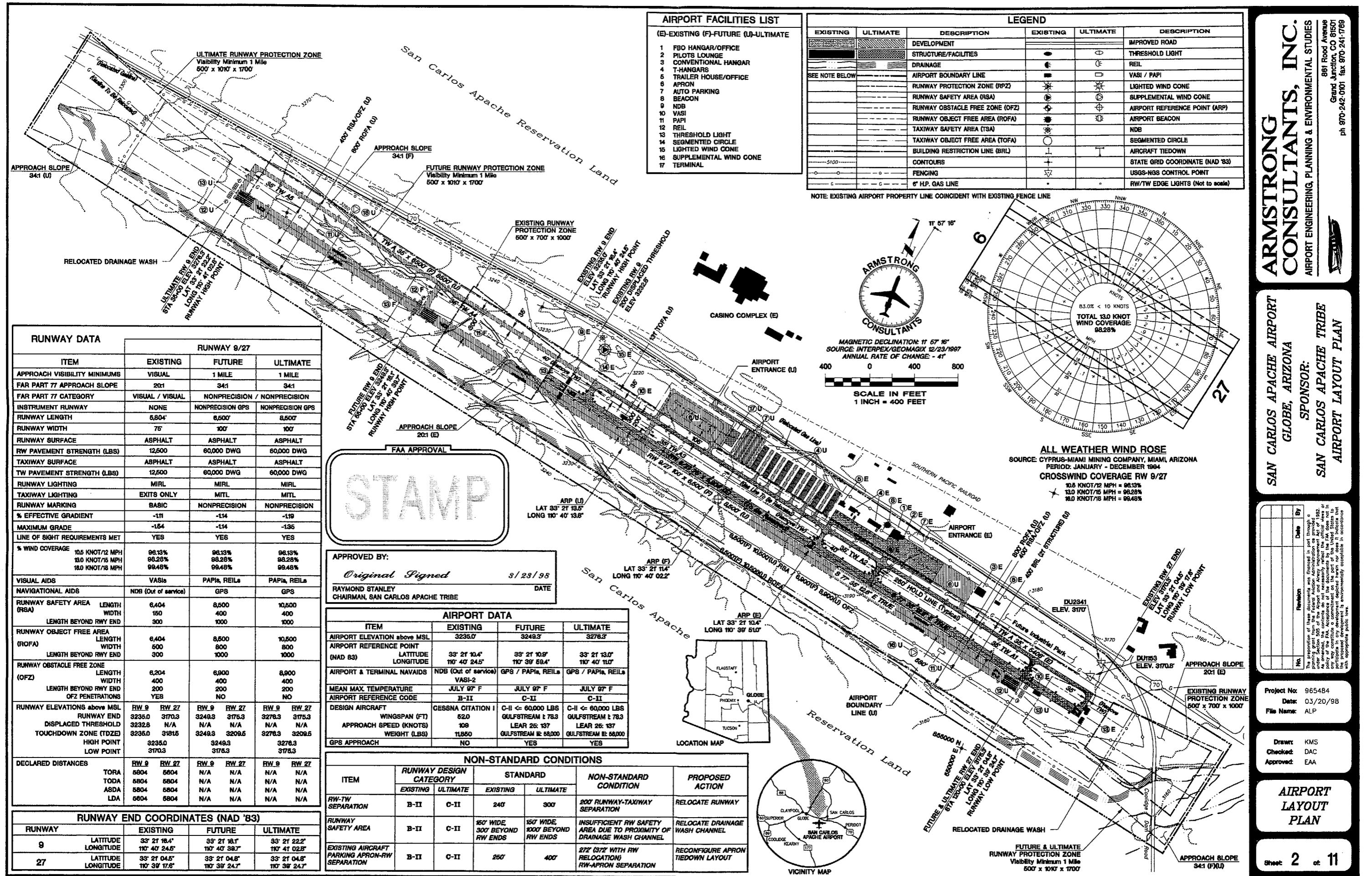


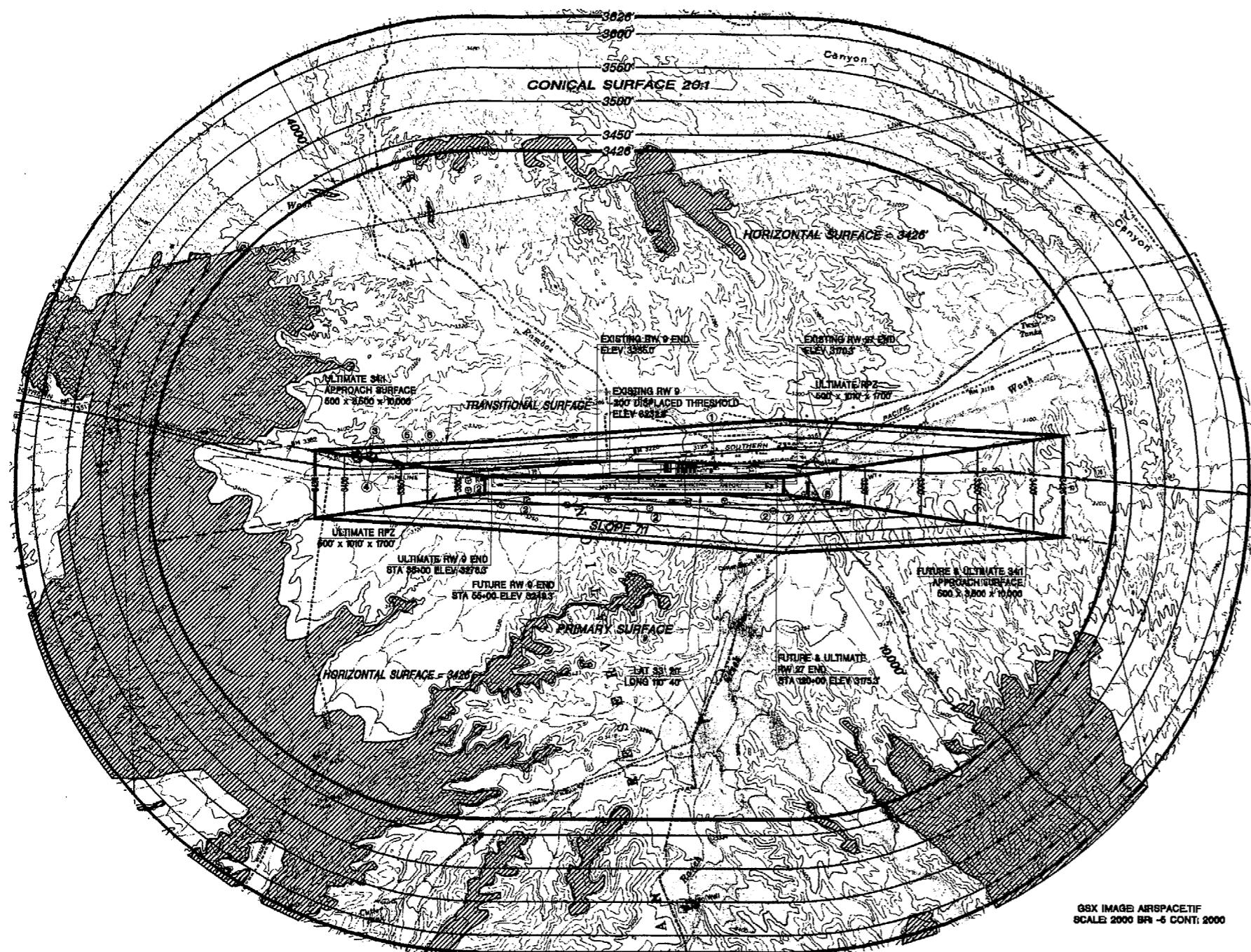
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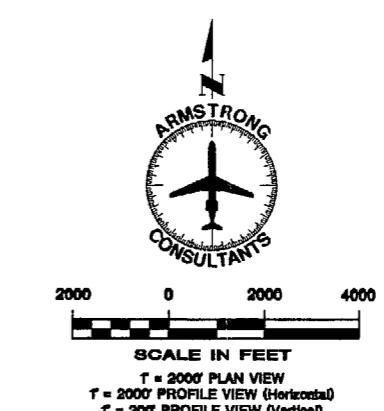
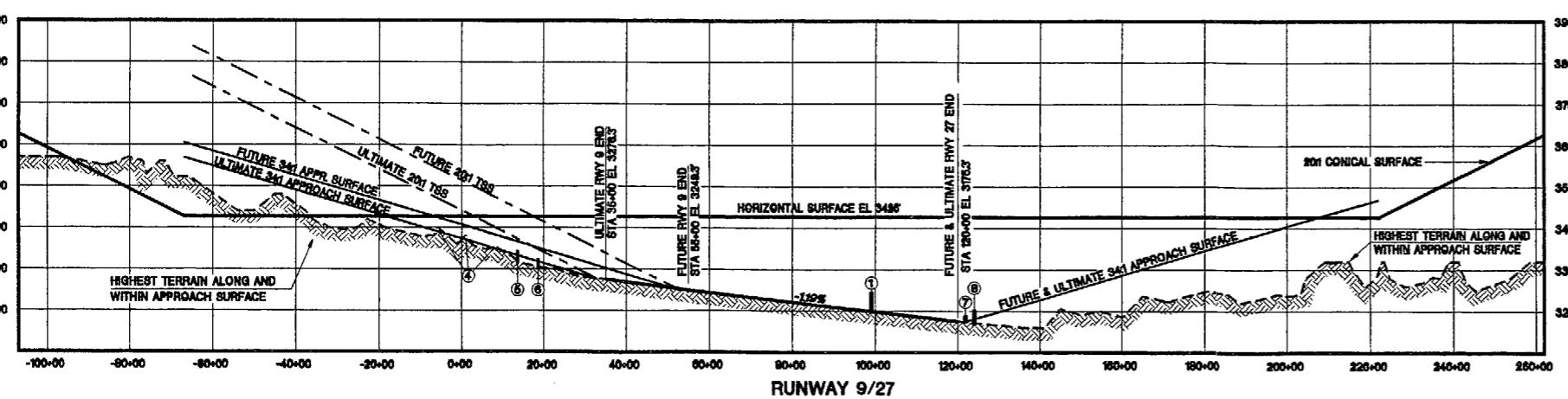
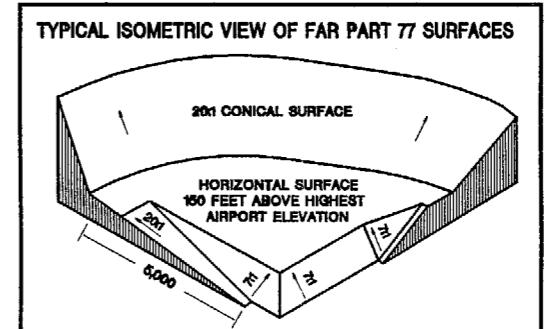
PENETRATIONS				
SURFACE	OBJECT	TOP ELEVATION	AMOUNT OF PENETRATION	PROPOSED ACTION
HORIZONTAL	TERRAIN	VARIES UP TO 3565'	VARIES UP TO +139'	NONE
CONICAL	TERRAIN	VARIES UP TO 3780'	VARIES UP TO +136'	NONE
TRANSITIONAL	1) BEACON	3241	+2'	OBSTRUCTION LIGHT
TRANSITIONAL	2) TREES/SHRUBS	VARIES	VARIES	TRIM OR REMOVE
TRANSITIONAL	3) TERRAIN	3391	VARIES UP TO +21'	NONE
			PART 77 THRESHOLD SITING	
APPROACH RWY 9	4) TERRAIN	3391	+21' -45'	NONE (T&S. CLEAR)
RWY 9	5) RAILROAD	3341	+8' -42'	OBSTRUCTION LIGHT
RWY 9	6) HIGHWAY	3322	+4' -36'	OBSTRUCTION LIGHT
RWY 27	7) FENCE (E)	3179	+4' -4'	RELOCATE FENCE
RWY 27	8) TREES/SHRUBS	3200	VARIES	TRIM OR REMOVE

**NOTES**

- a) NO CURRENT HEIGHT RESTRICTION ZONING IN EFFECT
- b) REFER TO INNER PORTION OF THE APPROACH SURFACE DRAWING FOR DETAILS ON ANY CLOSE-IN APPROACH OBSTRUCTIONS.
- c) TSS = THRESHOLD SITING SURFACE

**LEGEND**

ULTIMATE DEVELOPMENT
AIRPORT PROPERTY BOUNDARY (U)
RUNWAY PROTECTION ZONE
PRIMARY SURFACE
FAR PART 77 AIRSPACE SURFACES
THRESHOLD SITING SURFACE
COMPOSITE SURFACE ALONG HIGHEST TERRAIN
TREE OR SHRUB
TERRAIN PENETRATION



**SAN CARLOS APACHE AIRPORT  
GLOBE, ARIZONA**  
**AIRPORT LAYOUT PLANS**

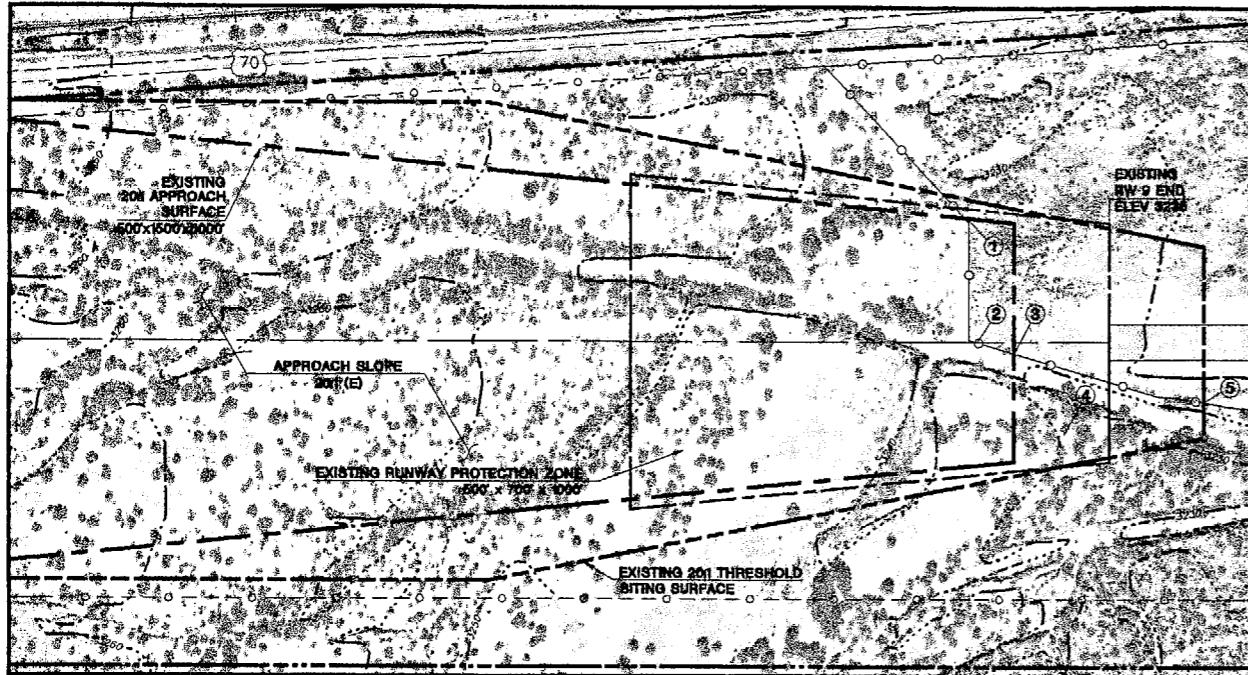
Plot No.	Date

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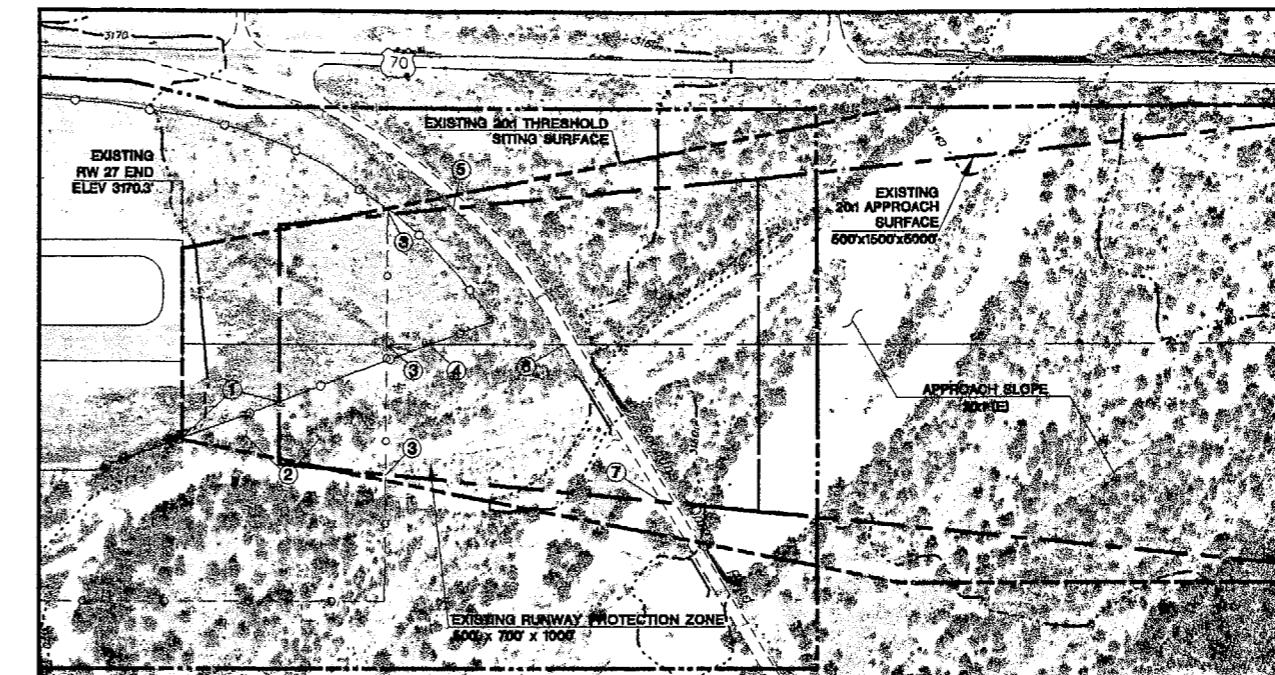
Project No: 965484  
Date: 03/19/98  
File Name: AIRSPACE

Drawn: TGM  
Checked: DAC  
Approved: EAA

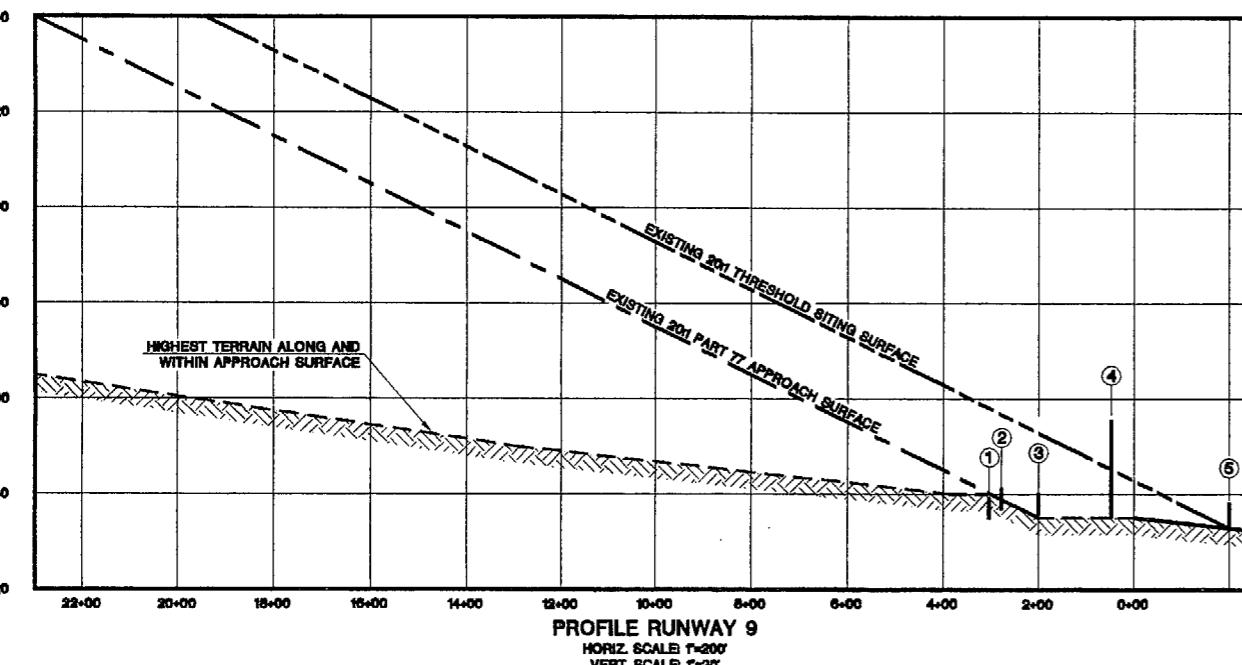
**PART "77"  
AIRSPACE  
DRAWING**



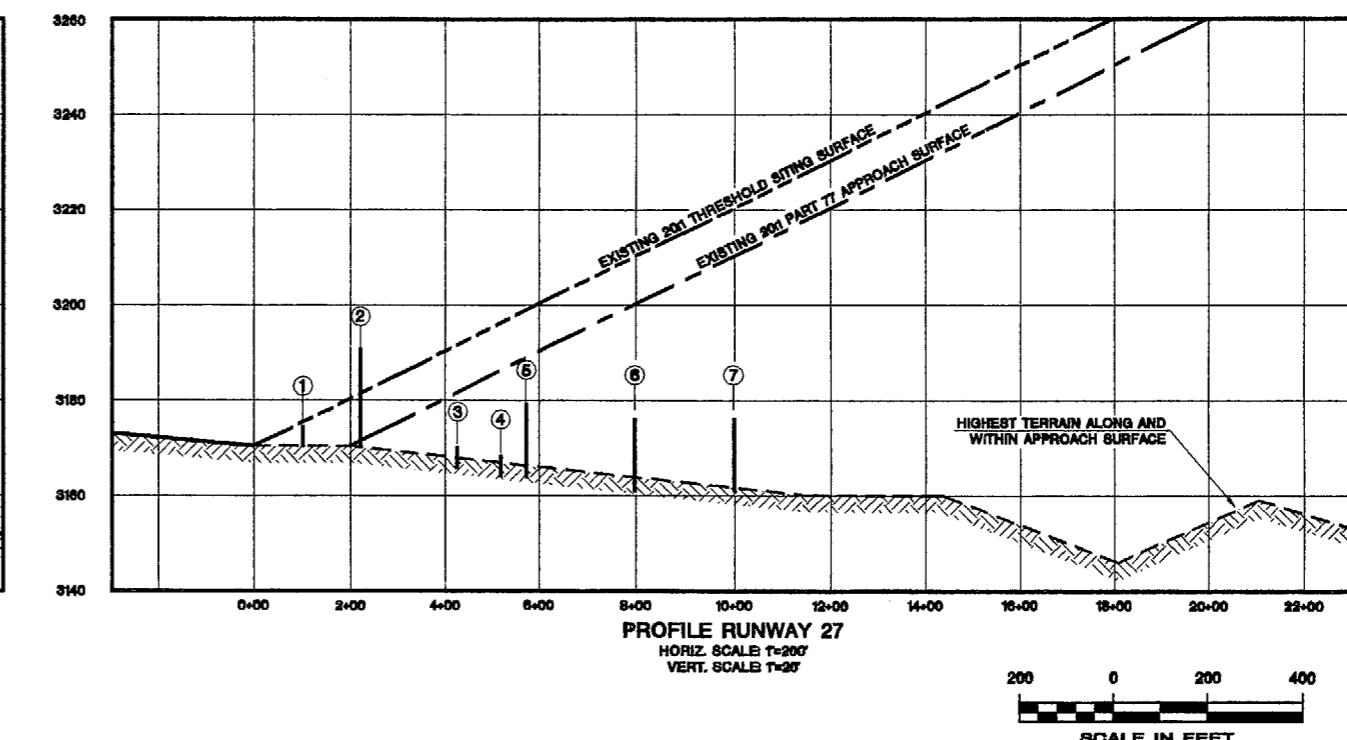
PLAN RUNWAY 9  
SCALE 1:200



PLAN RUNWAY 27  
SCALE 1:200



PROFILE RUNWAY 9  
HORZ. SCALE 1:200  
VERT. SCALE 1:20



PROFILE RUNWAY 27  
HORZ. SCALE 1:200  
VERT. SCALE 1:20



OBJECTS WITHIN RWY 9 INNER APPROACH SURFACE					
NO.	OBJECT	TOP ELEVATION	AMOUNT OF PENETRATION (EXISTING)		PROPOSED ACTION
			201 APPROACH SURFACE	201 THRESHOLD SITING SURFACE	
①	FENCE (E)	3239	-1	-19	RELOCATE RW & FENCE
②	FENCE (E)	3241	+2	-16	RELOCATE RW & FENCE
③	FENCE (E)	3240	+6	-13	RELOCATE RW & FENCE
④	TREES/SHRUBS	3262	VARIES	VARIRES	TRIM OR REMOVE
⑤	FENCE (E)	3238	-	+6	RELOCATE RW & FENCE

LEGEND					
EXISTING DEVELOPMENT					
— — — APPROACH SURFACE					
— — — THRESHOLD SITING SURFACE (T.S.S.)					
— — — EXISTING GROUND PROFILE					
— - - - - FUTURE AIRPORT PROPERTY LINE (FAPL)					
— - - - - RUNWAY PROTECTION ZONE (RPZ)					
— - - - - EXISTING CONTOURS					
— - - - - EXISTING FENCE					
— - - - - FUTURE FENCE					
— - - - - HIGHWAY					

OBJECTS WITHIN RWY 27 INNER APPROACH SURFACE					
NO.	OBJECT	TOP ELEVATION	AMOUNT OF PENETRATION (EXISTING)		PROPOSED ACTION
			201 APPROACH SURFACE	201 THRESHOLD SITING SURFACE	
①	FENCE (E)	3174	-4	-4	RELOCATE RW & FENCE
②	TREES/BUSHES	3168	VARIRES	VARIRES	TRIM OR REMOVE
③	FENCE (FAD)	3170	-14	-34	NONE
④	FENCE (E)	3168	-18	-28	NONE
⑤	ROAD	3179	-10	-20	NONE
⑥	ROAD	3175	-24	-34	NONE
⑦	ROAD	3176	-34	-44	NONE

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SAN CARLOS APACHE AIRPORT  
GLOBE, ARIZONA  
AIRPORT LAYOUT PLANS

No.	Date
	By

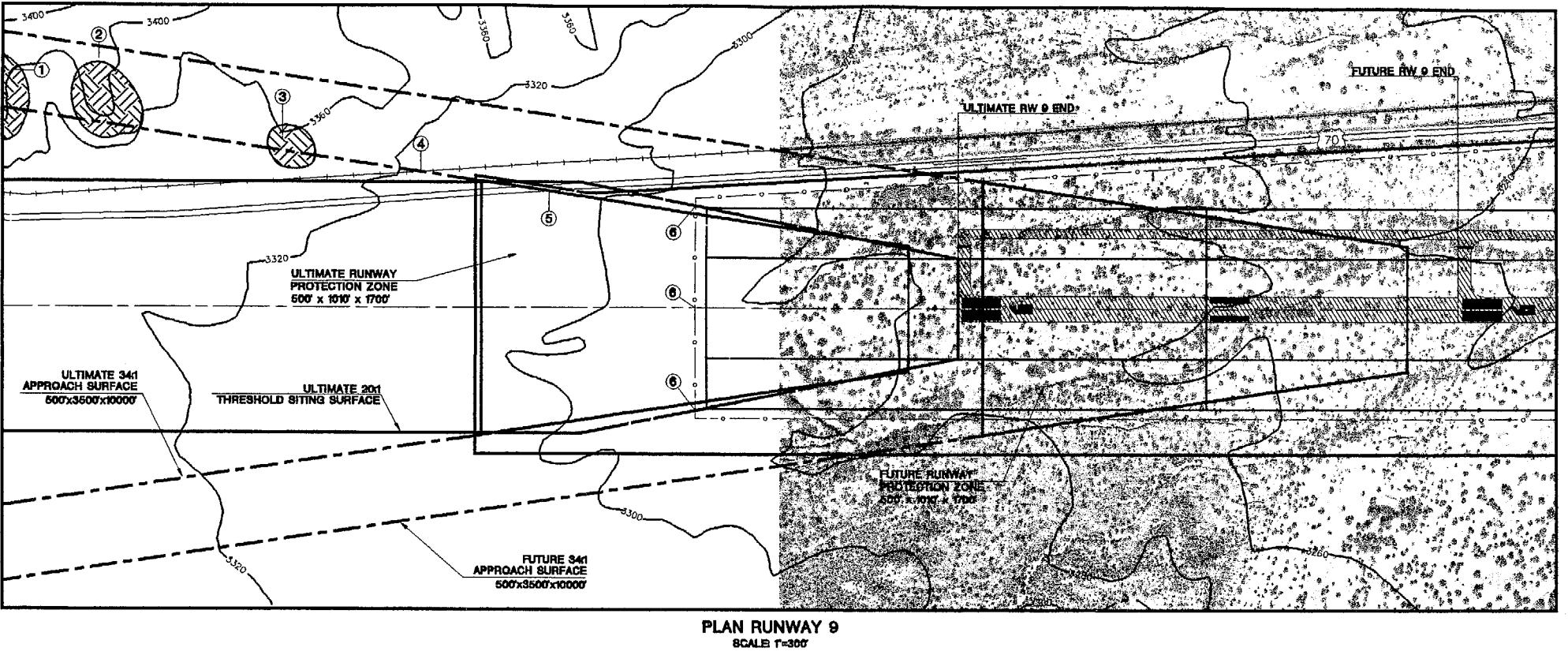
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Project No: 965484  
Date: 03/20/98  
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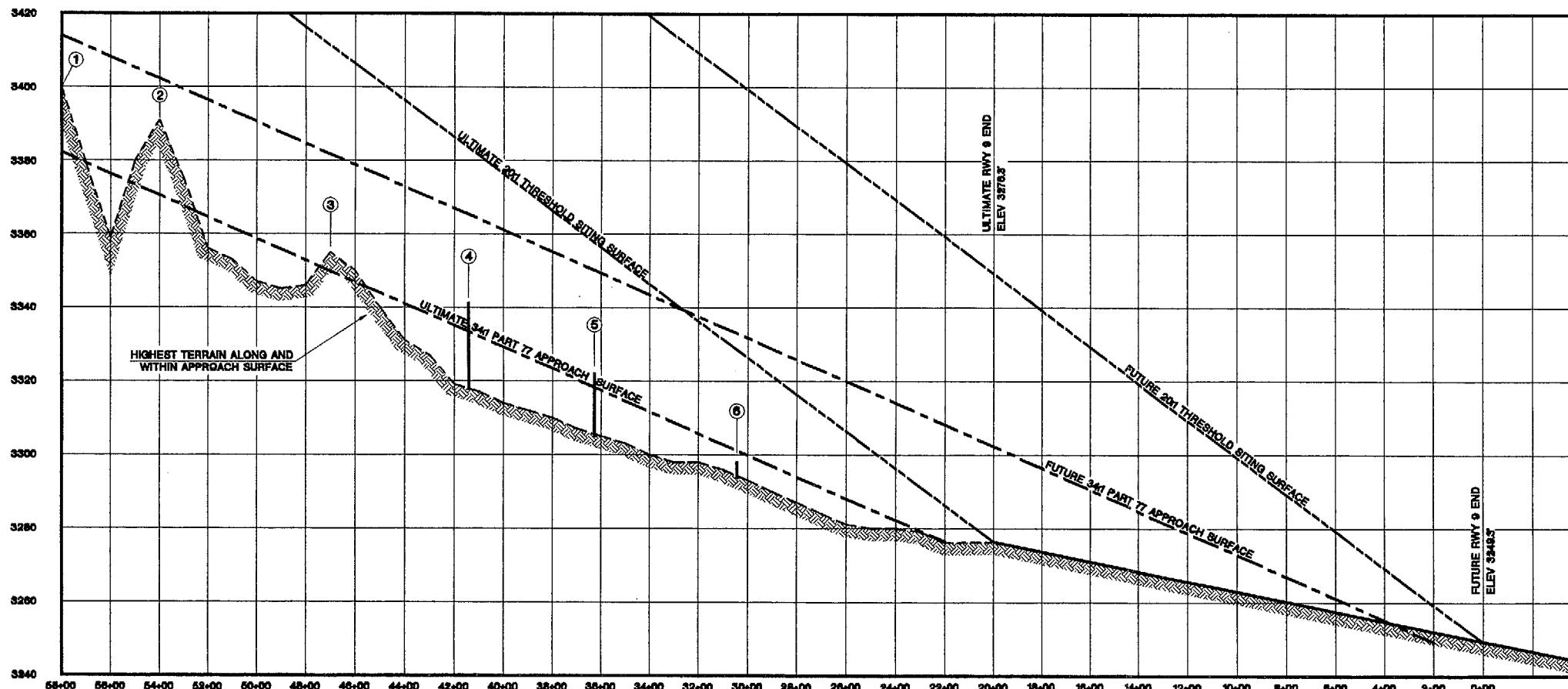
Drawn: TGM  
Checked: DAC  
Approved: EAA

**EXISTING INNER APPROACH RW 9/27**

Sheet 4 of 11



**PLAN RUNWAY**  
SCALE T-300



**PROFILE RUNWAY**  
HORIZ. SCALE 1:300  
VERT. SCALE 1:20'

OBJECTS WITHIN RWY 9 INNER APPROACH SURFACE					
NO.	OBJECT	TOP ELEVATION	AMOUNT OF PENETRATION (ULTIMATE)		PROPOSED ACTION
			341 SURF.	301 THRESHOLD Biting	
①	TERRAIN	3400	+18	-56	NONE (T.B.B. CLEAR)
②	TERRAIN	3391	+21	-45	NONE (T.B.B. CLEAR)
③	TERRAIN	3355	+5	-46	NONE (T.B.B. CLEAR)
④	RAILROAD	3341	+8	-42	OBSTRUCTION LIGHT
⑤	HIGHWAY	3322	+4	-36	OBSTRUCTION LIGHT
⑥	FENCE	3298	-3	-31	NONE

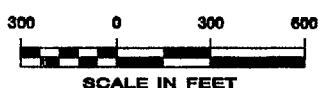
Project No:  
Date:  
File Name:

Drawn  
Checked  
Approved

**ULTIMATE  
INNER  
APPROACH  
RW 9**



MAGNETIC DECLINATION: 11° 57' 16"  
SOURCE: INTERPEX/GEO MAGIX 12/23/1997  
ANNUAL RATE OF CHANGE - 4T



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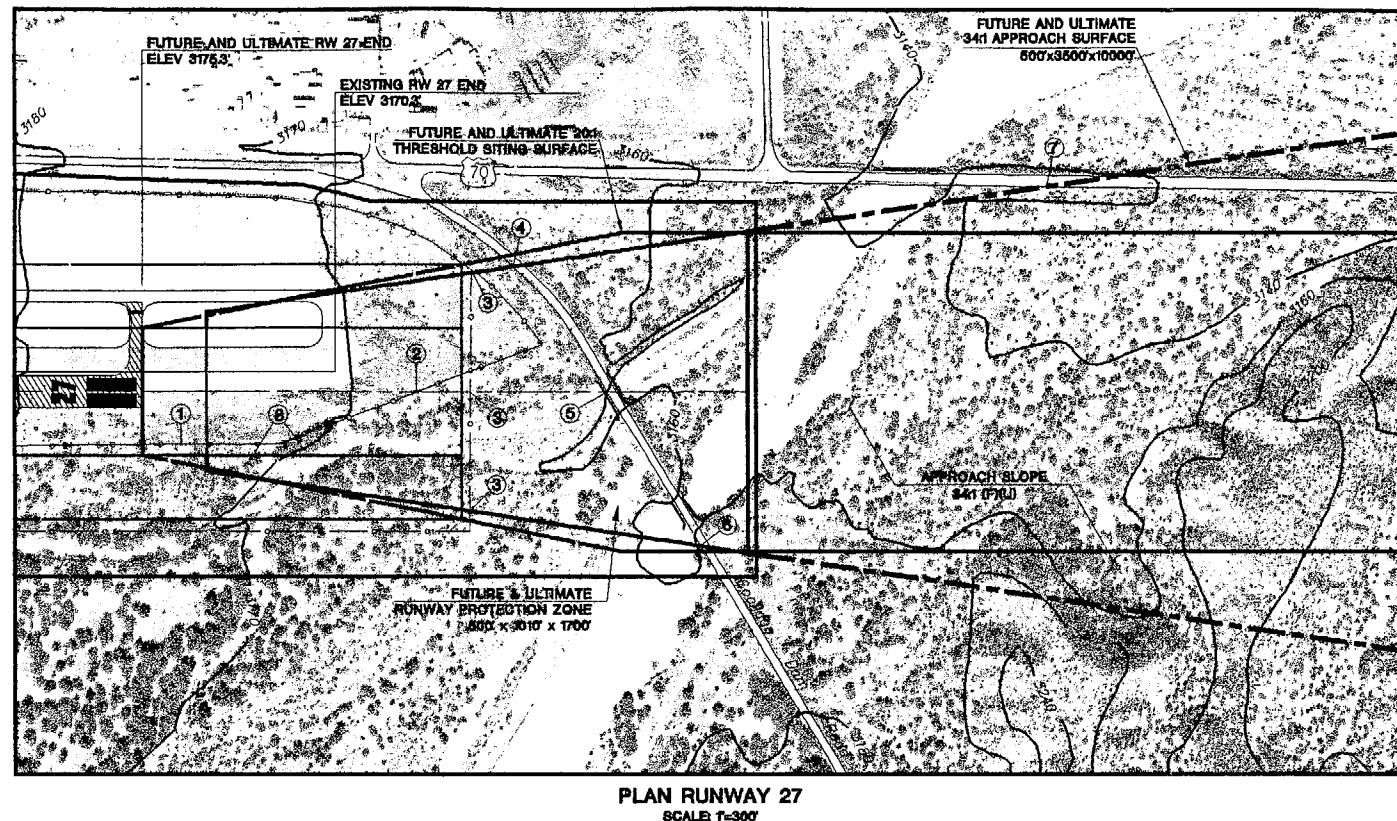


AIRPORT LAYOUT PLANS

AIRPORT LAYOUT PLANS

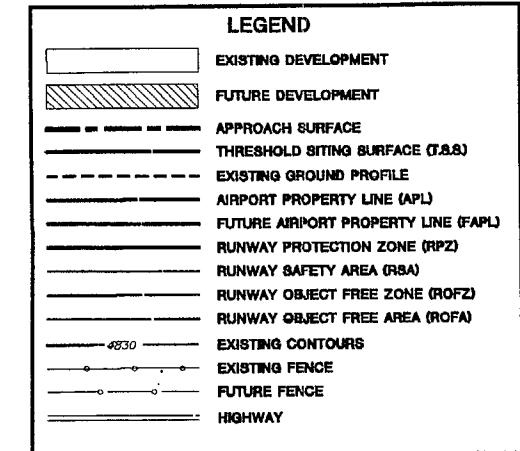
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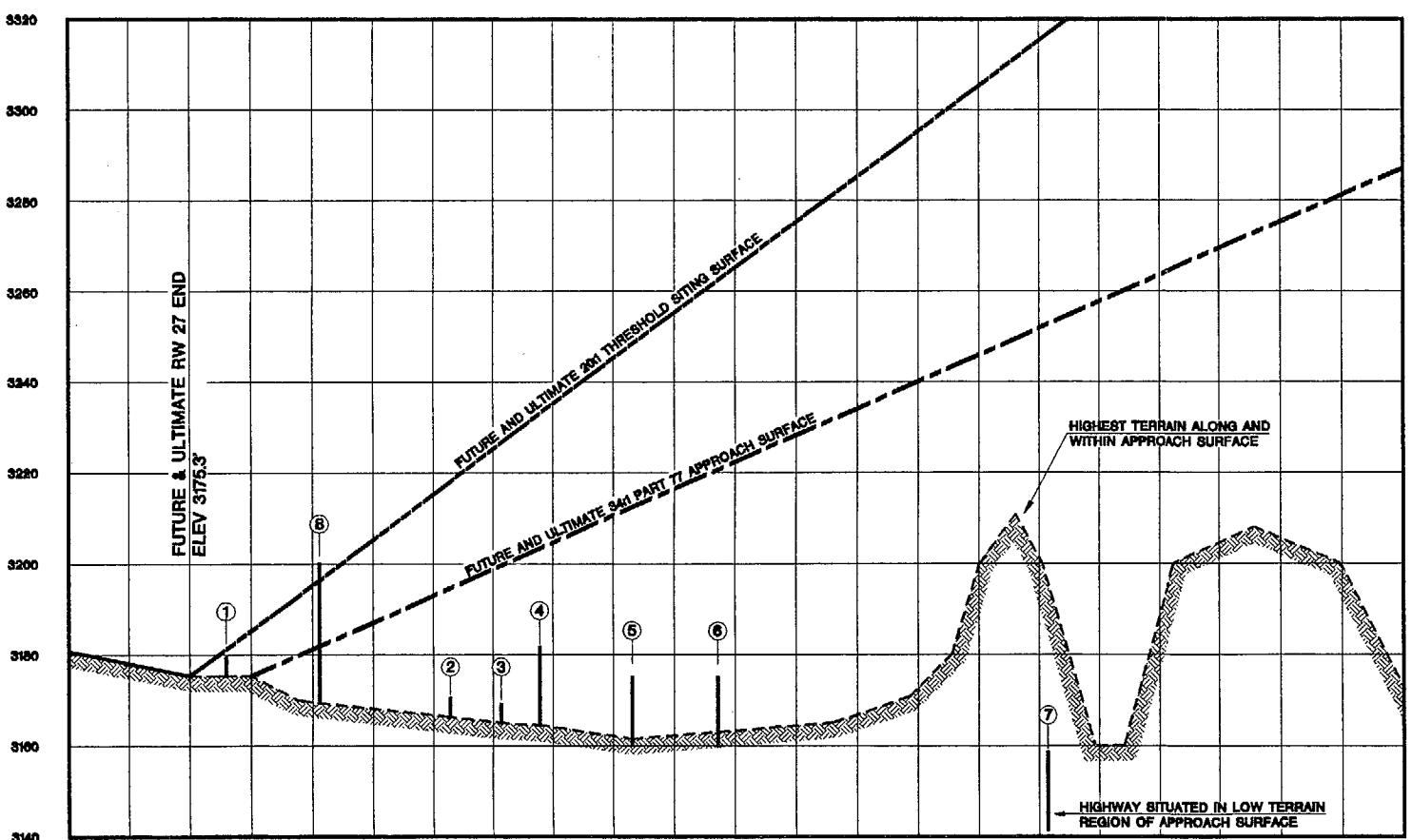
GSX IMAGE APPR27.tif  
SCALE 865 DIR 80 CONN 11

PLAN RUNWAY 27  
SCALE T=300'



MAGNETIC DECLINATION: 11° 57' 15"  
SOURCE: INTERPEX/GEOGRAPHIX 12/23/1997  
ANNUAL RATE OF CHANGE - 4°

300 0 300 600  
SCALE IN FEET



PROFILE RUNWAY 27  
HORIZ. SCALE T=300'  
VERT. SCALE T=20'

NO.	OBJECT	TOP ELEVATION	AMOUNT OF PENETRATION (ULTIMATE)		PROPOSED ACTION
			341 APPROACH SURFACE	20x1 THRESHOLD SITING SURFACE	
①	FENCE (E)	3179	-4	-4	RELOCATE FENCE
②	FENCE (E)	3172	-24	-48	RELOCATE FENCE
③	FENCE (F)(U)	3169	-31	-58	NONE
④	ROAD	3162	-22	-52	NONE
⑤	ROAD	3175	-37	-73	NONE
⑥	ROAD	3175	-46	-97	NONE
⑦	HIGHWAY	3168	-94	-168	NONE
⑧	TREES/BUSHES	3198	VARIES	VARIES	TRIM OR REMOVE

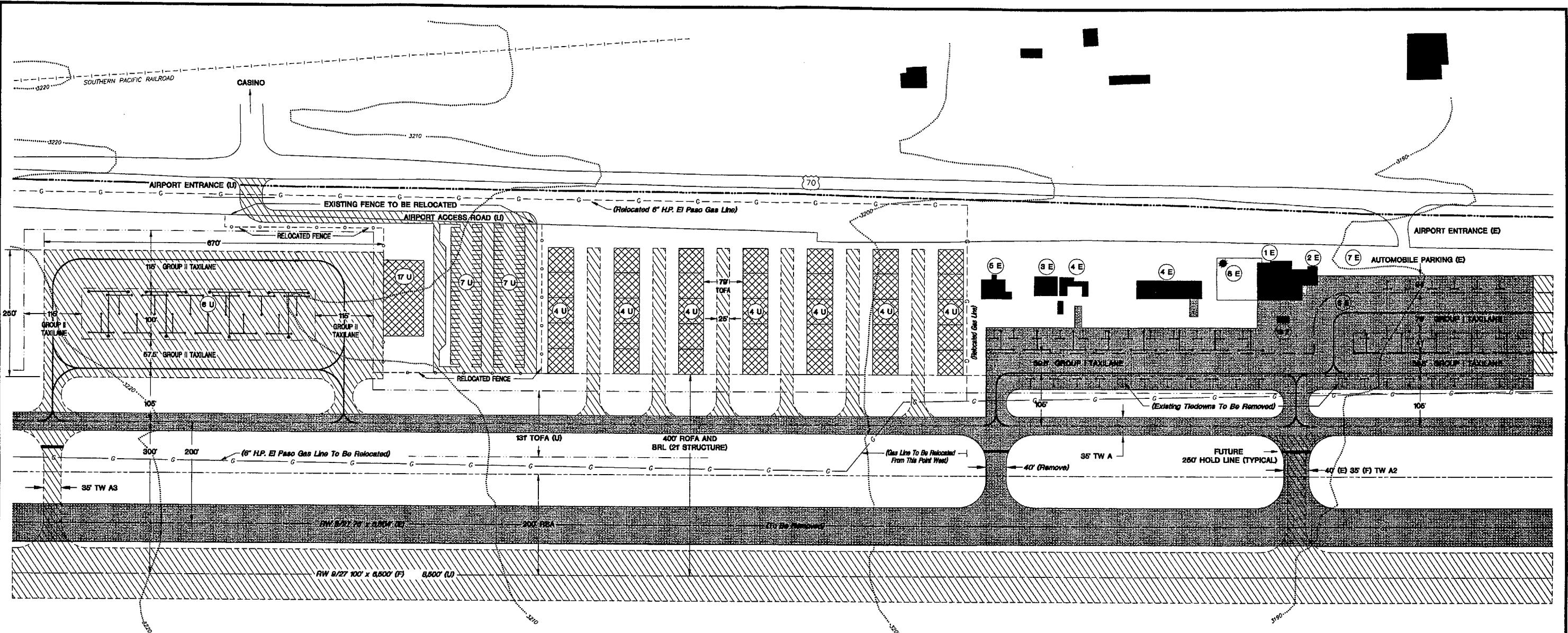
ULTIMATE  
INNER  
APPROACH  
RW 27

Sheet 6 of 11

Project No: 965484  
Date: 03/19/98  
File Name: APPR27

Drawn: TGM  
Checked: DAC  
Approved: EAA

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100 0 100 200  
SCALE IN FEET



ELEVATION OF STRUCTURES			
FACILITY NO.	DESCRIPTION	OBJECT HEIGHT	ELEVATION (TOP)
1	FBO/HANGAR	15	3207
2	PILOT LOUNGE	10	3202
3	HANGAR	15	3213'
4	T-HANGARS	15	3213'
5	TRAILER HOME	10	3208'
8	BEACON (OL required)	43	3247

NOTES:  
1. LATERAL SEPARATION FOR BUILDINGS MET.  
2. LATERAL RUNWAY TO AIRCRAFT PARKING APRON SEPARATION NOT MET - APRON TO BE RECONFIGURED.  
3. OBSTRUCTION LIGHTING REQUIRED AS NOTED.

AIRPORT FACILITIES LIST	
(E)-EXISTING (F)-FUTURE (U)-ULTIMATE	
1 FBO HANGAR/OFFICE	
2 PILOTS LOUNGE	
3 CONVENTIONAL HANGAR	
4 T-HANGARS	
5 TRAILER HOUSE/OFFICE	
6 APRON	
7 AUTO PARKING	
8 BEACON	
9 NDB	
10 VASI	
11 PAPI	
12 REIL	
13 THRESHOLD LIGHT	
14 SEGMENTED CIRCLE	
15 LIGHTED WIND CONE	
16 SUPPLEMENTAL WIND CONE	
17 TERMINAL	
18 FUEL PUMP	

LEGEND					
EXISTING	ULTIMATE	DESCRIPTION	EXISTING	ULTIMATE	DESCRIPTION
		DEVELOPMENT			IMPROVED ROAD
		STRUCTURE/FACILITIES	●	○	THRESHOLD LIGHT
		DRAINAGE	€	€	REIL
		AIRPORT BOUNDARY LINE	—	—	VASI / PAPI
		RUNWAY PROTECTION ZONE (RPZ)	⊗	⊗	LIGHTED WIND CONE
		RUNWAY OBJECT FREE AREA (ROFA)	◎	◎	SUPPLEMENTAL WIND CONE
		RUNWAY OBJECT FREE AREA (ROFA)	○	○	AIRPORT REFERENCE POINT (ARP)
		TAXWAY SAFETY AREA (TSA)	⊗	⊗	AIRPORT BEACON
		TAXWAY OBJECT FREE AREA (TOFA)	○	○	NDB
		BUILDING RESTRICTION LINE (BRL)	—	—	SEGMENTED CIRCLE
5100		CONTOURS	+		AIRCRAFT TIEDOWN
—	—	FENCING	▽		STATE GRID COORDINATE (NAD '83)
—	—	6" HP. GAS LINE			USGS-NGS CONTROL POINT

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**SAN CARLOS APACHE AIRPORT  
GLOBE, ARIZONA**

**AIRPORT LAYOUT PLANS**

Project No: 965484  
Date: 03/19/98  
File Name: TAD

Drawn: TGM  
Checked: DAC  
Approved: EAA

No.	Revision	Date	By

**TERMINAL  
AREA  
DRAWING**

Sheet 7 of 11

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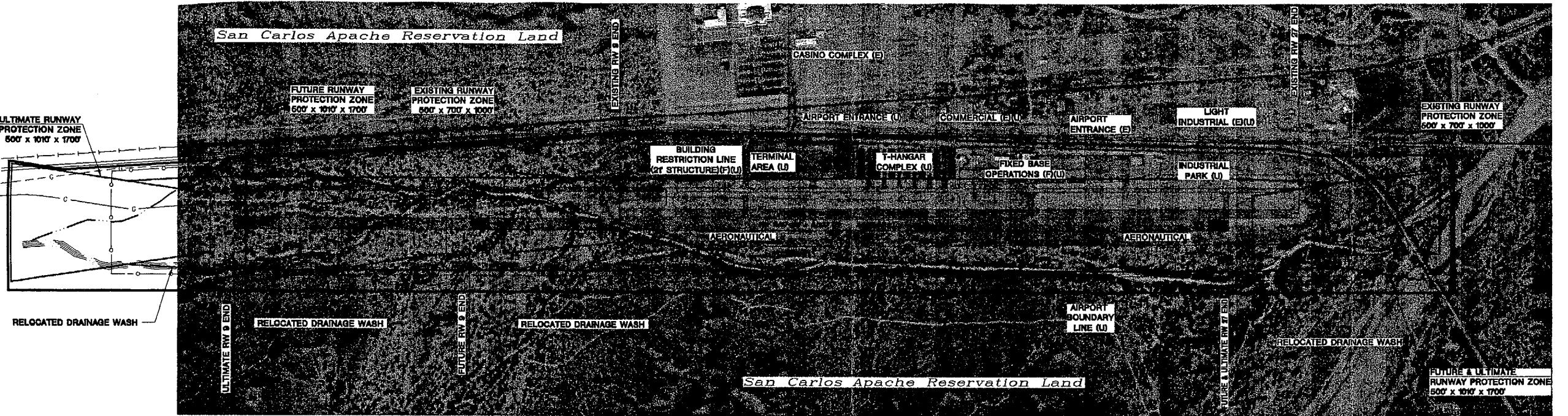
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**SAN CARLOS APACHE AIRPORT  
GLOBE, ARIZONA**

**AIRPORT LAYOUT PLANS**



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SCALE 849 BR60 CON10

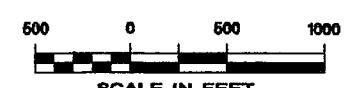
LEGEND		
EXISTING	ULTIMATE	DESCRIPTION
		DEVELOPMENT
		STRUCTURE/FACILITIES
		DRAINAGE
		AIRPORT BOUNDARY LINE
		RUNWAY PROTECTION ZONE (RPZ)
		RUNWAY SAFETY AREA (RSA)
		BUILDING RESTRICTION LINE (BRL)
		IMPROVED ROAD
		FENCING
		6" H.P. GAS LINE

NOTE: EXISTING AIRPORT BOUNDARY LINE COINCIDES WITH EXISTING AIRPORT PERIMETER FENCE.

LAND USE ORDINANCES		
NO LAND USE ORDINANCES IN EFFECT.		
ALL LAND USES CONTROLLED BY THE SAN CARLOS APACHE TRIBE.		
COMPATIBLE LAND USE ASSURANCE LETTER ON FILE.		



MAGNETIC DECLINATION: 11° 57' 16"  
SOURCE: INTERPEX/GEOGRAPHIX 12/23/1997  
ANNUAL RATE OF CHANGE - 4°



Project No: 965484  
Date: 03/19/98  
File Name: LU-ON

Drawer: TGM  
Checked: DAC  
Approved: EAA

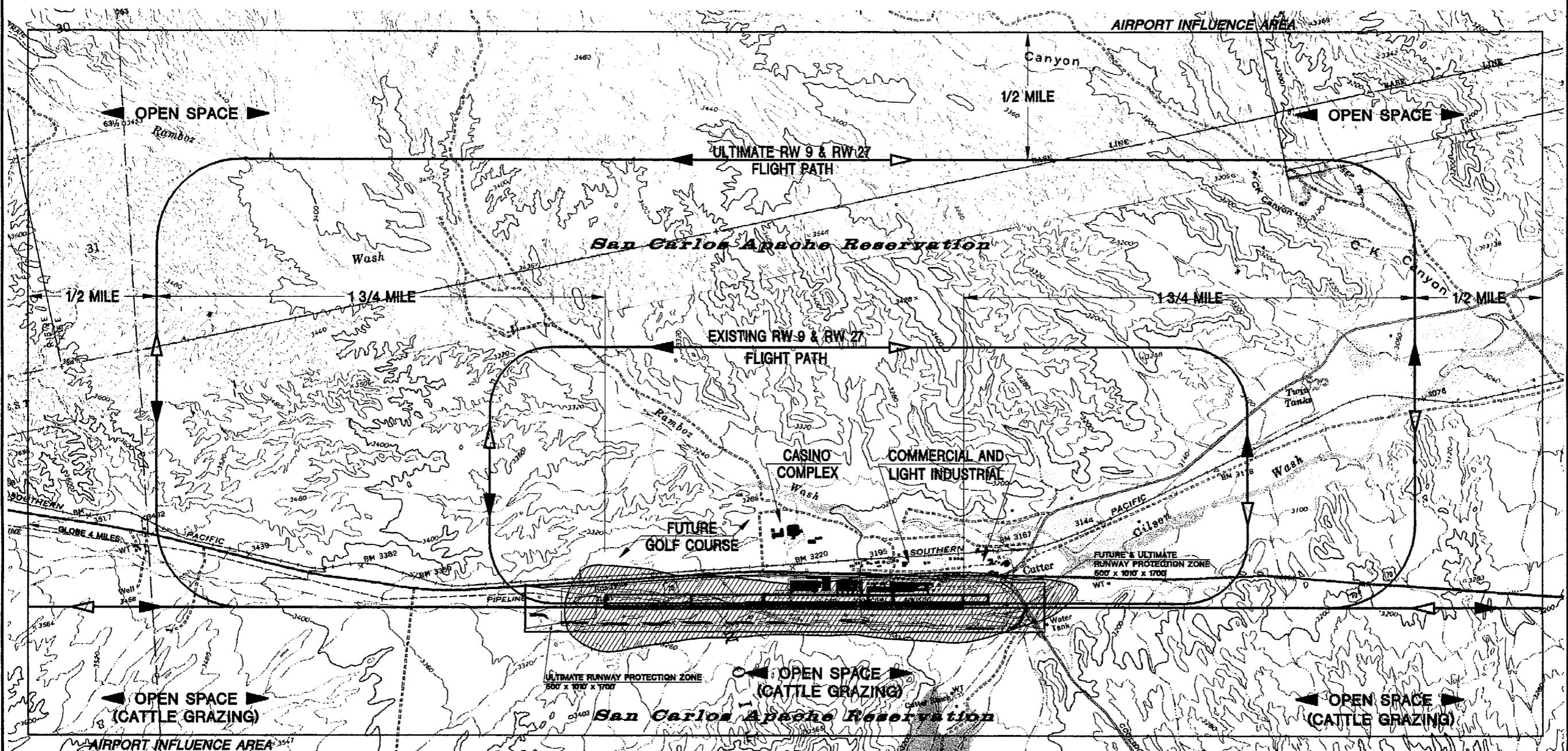
**ON-AIRPORT  
LAND  
USE**

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**SAN CARLOS APACHE AIRPORT  
GLOBE, ARIZONA**

**AIRPORT LAYOUT PLANS**



Project No.	965484
Date	03/19/98
File Name	LANDUSE
By	
Date	
No.	

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Approved: EAA

**OFF-AIRPORT  
LAND USE**

GSX IMAGE LU-OFFJTIF  
SCALE 2000 BR 50 CON 10

Sheet 9 of 11

LEGEND	
AIRPORT PROPERTY LINE	
AIRPORT INFLUENCE AREA	
RUNWAY PROTECTION ZONE	
65 DNL NOISE CONTOUR (0)	
RWY 9 FLIGHT PATTERN	
RWY 27 FLIGHT PATTERN	
1 MILE	DIMENSIONS IN NAUTICAL MILES (NM)

METRIC CONVERSIONS	
1 MILE = 1.6093 Km	
1 YARD = 0.9144 METER	
1 FOOT = 0.3048 METER	
1 INCH = 2.54 CENTIMETERS	

1300 0 1300 2800  
SCALE IN FEET



**LAND USE AND ZONING PLANS IN EFFECT**

ALL LAND USES WITHIN AIRPORT INFLUENCE AREA, AND ON SAN CARLOS APACHE RESERVATION LAND, CONTROLLED BY THE SAN CARLOS APACHE TRIBE.

**LAND DEVELOPMENT GUIDELINES**

FUTURE AIRPORT PROPERTY: DESIGNATE SUFFICIENT LAND TO CONSTRUCT AIRFIELD IMPROVEMENT, SECURE RUNWAY PROTECTION ZONES, AND CONTAIN TO THE EXTENT POSSIBLE NOISE IMPACTS OF DNL 65 OR GREATER.

RUNWAY PROTECTION ZONE: CONTAIN WITHIN AIRPORT PROPERTY BOUNDARIES OR OBTAIN APPROPRIATE EASEMENTS.

APPROACH AREAS: PERMIT ONLY COMPATIBLE DEVELOPMENT. ENSURE COMPLIANCE WITH THE SAN CARLOS APACHE TRIBE AND AIRPORT SAFETY ZONE POLICIES, AND STRUCTURE HEIGHT LIMITATIONS TO CONFORM TO FAR PART 77 CRITERIA.

AIRPORT INFLUENCE AREA/TRAFFIC PATTERN AIRSPACE: REVIEW ALL DEVELOPMENT PROJECTS FOR COMPATIBILITY AND COMPLIANCE WITH FAR PART 77 AND SAN CARLOS APACHE TRIBE LAND USE POLICIES WHICH MAY EXIST.

NOTE: THERE ARE NO SOLID WASTE LANDFILLS WITHIN 5 MILES OF THE SAN CARLOS APACHE AIRPORT.

NOTE: ALL LAND IS OWNED BY THE SAN CARLOS APACHE TRIBE. PROPERTY LINES IDENTIFY LAND DESIGNATED FOR AIRPORT USE.

Sheet 9 of 11

**ARMSTRONG  
CONSULTANTS, INC.**  
AIRPORT ENGINEERING, PLANNING & ENVIRONMENTAL STUDIES

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**SAN CARLOS APACHE AIRPORT  
GLOBE, ARIZONA**

**AIRPORT LAYOUT PLANS**

No.	Date	By

Revolution

The preparation of these documents was financed in part through a planning grant from the Federal Aviation Administration as provided under Section 405 of the Airport and Airway Improvement Act of 1982. Acceptance of the documents by the FAA does not in any way constitute a commitment on the part of the FAA to any policy or program. It is the responsibility of the San Carlos Apache Tribe to determine if the proposed development is in accordance with appropriate public laws.

Project No: 965484  
Date: 03/19/98  
File Name: EXHIBITA

Drawn: TGM  
Checked: DAC  
Approved: EAA

**EXHIBIT "A"**

Sheet 10 of 11

